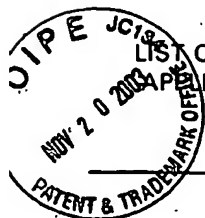


FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-24088SERIAL NO.
10/645,816APPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
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LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
<i>W</i>	A	0	0	0	5	4	7	8	01/17/02	Hillenkamp	250	288	01/14/00
	B	3	5	5	3	4	5	2	01/05/71	Tiernan et al.	250	41.9	02/17/69
	C	3	7	7	6	7	0	0	12/04/73	Gallant	422	65	12/08/71
	D	3	8	0	7	2	3	5	04/30/74	Leixovitz	73	863.32	10/06/72
	E	3	9	3	1	5	1	6	01/06/76	Fletcher et al.	250	281	08/30/74
	F	4	0	4	7	0	3	0	09/06/77	Lobach	250	281	09/24/75
	G	4	0	7	6	9	8	2	02/28/78	Ritter et al.	250	288	10/06/76
	H	4	1	3	9	3	4	6	02/13/79	Rabbani	422	56	11/28/77
	I	4	2	1	4	1	5	9	07/22/80	Hillenkamp et al.	250	288	08/31/78
	J	4	4	6	1	3	2	8	07/24/84	Kenney	422	100	06/04/82
	K	4	5	1	5	7	8	1	05/07/85	Torrence et al.	514	46	02/23/83
	L	4	5	5	4	8	3	9	11/26/85	Hewett et al.	73	864.16	10/14/83
	M	4	5	8	2	7	8	9	04/15/86	Sheldon III et al.	435	6	12/18/84
	N	4	6	0	4	3	6	3	10/18/99	Newhouse et al.	436	177	08/05/86
	O	4	6	2	5	1	1	2	11/25/86	Yoshida	250	287	06/21/84
	P	4	6	6	3	9	4	4	05/12/87	Bernius et al.	62	51.1	07/12/85
	Q	4	7	1	1	9	5	5	12/08/87	Ward et al.	536	25.32	05/23/83
	R	4	7	3	3	0	7	3	03/22/88	Becker et al.	250	288	05/16/86
	S	4	7	4	0	6	9	2	04/26/88	Yamamoto et al.	250	288	06/12/86
	T	4	7	7	9	4	6	7	10/25/88	Rainin et al.	73	863.32	01/28/87
	U	4	8	0	6	5	4	6	02/21/89	Carrico et al.	536	27	09/30/85
<i>V</i>	V	4	8	2	6	3	6	0	05/02/89	Iwasawa et al.	406	51	02/25/87

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Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING

FORM PTO-1449 (Modified)

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U.S. PATENT DOCUMENTS

INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
<i>W</i>	W	4	8	5	1	0	1	8	07/25/89	Lazzari et al.	55	356	11/20/87
	X	4	8	7	7	7	4	5	10/31/89	Hayes et al.	436	166	03/14/89
	Y	4	8	8	2	1	2	7	11/21/89	Rosenthal et al.	422	50	11/12/87
	Z	4	9	2	0	2	6	4	04/24/90	Becker	250	289	01/17/89
	AA	4	9	2	5	6	2	9	05/15/90	Schramm	422	82.05	07/28/88
	AB	4	9	5	2	5	1	8	08/28/90	Johnson et al.	436	518	12/28/87
	AC	4	9	8	8	6	1	7	01/29/91	Landegren et al.	435	6	03/25/88
	AD	5	0	0	0	9	2	1	03/19/91	Hanaway et al.	422	100	02/08/90
	AE	5	0	0	3	0	5	9	03/26/91	Brennan	536	27	06/20/88
	AF	5	0	5	9	6	5	4	10/22/91	Hou et al.	525	54.1	02/16/89
	AG	5	0	6	4	7	5	4	11/12/91	Mills	436	6	11/13/87
	AH	5	1	0	8	7	0	3	04/28/92	Pfost et al.	422	65	05/10/91
	AI	5	1	1	8	6	0	5	06/02/92	Urdea et al.	436	6	09/29/88
	AJ	5	1	1	8	9	3	7	06/02/92	Hillenkamp et al.	250	282	08/21/90
	AK	5	1	2	2	3	4	2	06/16/92	McCulloch et al.	422	65	07/12/89
	AL	5	1	3	5	8	7	0	08/04/92	Williams et al.	436	173	06/01/90
	AM	5	1	4	3	4	5	1	09/01/92	Millgard	374	25	05/20/91
	AN	5	1	4	3	8	5	4	09/01/92	Pirrung et al.	436	518	03/07/90
	AO	5	1	4	9	6	2	5	09/22/92	Church et al.	435	6	03/28/90
	AP	5	1	6	4	5	9	4	11/07/92	Thompson et al.	250	288	10/22/91
	AQ	5	1	7	5	2	0	9	12/29/92	Beattie et al.	525	54.11	01/31/91
<i>✓</i>	AR	5	1	7	5	4	3	0	12/29/92	Enke et al.	250	282	05/17/91

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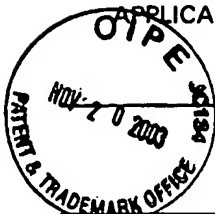
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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
<i>u</i>	AS	5	1	9	8	5	4	0	03/30/93	Koster	536	25.3	06/25/84
	AT	5	2	0	2	2	3	1	04/13/93	Drmanac et al.	435	6	06/18/91
	AU	5	2	1	0	4	1	2	05/11/93	Levis et al.	648	282	01/31/91
	AV	5	2	2	1	5	1	8	06/22/93	Mills	422	62	08/13/91
	AW	5	2	3	7	0	1	6	08/17/93	Ghosh et al.	525	329.4	01/05/89
	AX	5	2	4	2	9	7	4	09/07/93	Holmes	525	54.11	11/22/91
	AY	5	2	4	7	1	7	5	09/21/93	Schoen et al.	250	281	05/27/92
	AZ	5	2	6	2	1	2	8	11/16/93	Leghton et al.	422	100	10/23/89
	BA	5	2	7	3	7	1	8	12/28/93	Skold et al.	422	101	08/07/91
	BB	5	2	8	8	6	4	4	02/22/94	Beavis et al.	436	94	11/13/92
	BC	5	3	0	0	7	7	4	04/05/94	Buttrill	250	287	04/25/91
	BD	5	3	0	6	6	1	9	04/26/94	Edwards et al.	435	6	06/22/93
	BE	5	3	2	5	0	2	1	06/28/94	Duckworth et al.	315	111.51	09/11/92
	BF	5	3	3	8	6	8	8	08/16/94	Deeg et al.	436	180	02/19/93
	BG	5	3	5	0	8	7	6	09/27/94	Oberhardt et al.	435	13	05/17/93
	BH	5	3	6	3	8	8	3	11/15/94	McConnell et al.	139	450	02/18/93
	BI	5	3	6	4	7	6	0	11/15/94	Chu et al.	435	6	09/22/92
	BJ	5	3	6	5	0	6	3	11/15/94	Kaesdorf et al.	250	288	06/21/93
	BK	5	3	8	1	0	0	8	01/10/95	Tanner et al.	250	288	05/11/93
	BL	5	3	8	2	7	9	3	01/17/95	Weinberg et al.	250	288	01/06/92
	BM	5	4	0	3	7	1	1	04/04/95	Walder et al.	435	6	07/06/93
<i>✓</i>	BN	5	4	2	7	9	2	9	06/27/95	Richards et al.	435	91.2	05/03/93

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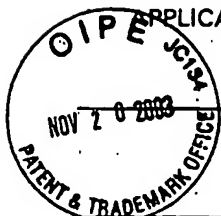
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<i>M</i>	BO	5	4	3	6	1	4	3	07/25/95	Hyman	435	91.2	12/23/92
	BP	5	4	3	9	6	4	9	08/08/95	Tseung et al.	422	99	09/23/93
	BQ	5	4	4	0	1	1	9	08/08/95	Labowsy	250	282	03/30/94
	BR	5	4	5	3	6	1	5	09/26/95	Gray et al.	250	281	10/21/94
	BS	5	4	5	9	0	3	9	10/17/95	Modrich et al.	435	6	03/18/94
	BT	5	4	9	8	5	4	5	03/12/96	Vestal	436	47	07/21/94
	BU	5	5	0	3	9	8	0	04/96	Cantor	435	6	10/17/94
	BV	5	5	0	8	1	6	9	04/16/96	Deugau et al.	435	6	10/28/94
	BW	5	5	1	0	2	7	0	04/23/96	Fodor et al.	436	518	09/30/92
	BX	5	5	1	2	2	9	5	04/30/96	Kornberg et al.	424	450	11/10/94
	BY	5	5	1	2	4	3	9	04/30/96	Hornes et al.	435	6	07/06/94
	BZ	5	5	1	4	5	4	8	05/07/96	Krebber et al.	435	6	02/17/94
	CA	5	5	2	5	4	6	4	06/11/96	Drmanac et al.	435	6	02/28/94
	CB	5	5	3	2	2	2	7	07/02/96	Golub et al.	514	152	12/21/94
	CC	5	5	3	8	8	9	7	07/23/96	Yates et al.	436	89	03/14/94
	CD	5	5	4	7	8	3	5	08/20/96	Köster	435	6	01/06/94
	CE	5	5	6	3	4	1	0	10/08/96	Mullock	250	288	03/03/94
	CF	5	5	7	8	4	4	4	11/26/96	Edwards et al.	435	6	12/20/93
	CG	5	5	8	0	4	3	4	12/03/96	Robotti et al.	204	451	02/29/96
	CH	5	5	8	0	7	3	3	12/03/96	Levis et al.	435	6	09/06/94
	CI	5	5	8	9	1	3	6	12/31/96	Northrup et al.	422	102	06/20/95
	CJ	5	5	9	9	5	0	0	02/04/97	Jones	422	62	05/10/95

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<i>u</i>	CK	5	6	0	1	9	8	2	02/11/97	Sargent et al.	435	6	02/07/95
	CL	5	6	0	5	6	6	2	02/25/97	Heller	422	68.1	11/01/93
	CM	5	6	0	5	7	9	8	02/25/97	Köster	435	6	03/17/95
	CN	5	6	0	7	9	1	2	03/04/97	Samejima et al.	510	411	09/09/92
	CO	5	6	0	9	9	0	7	03/11/97	Natan	427	2.12	09/20/95
	CP	5	6	2	2	8	2	4	04/22/97	Köster	435	6	02/10/95
	CQ	5	6	3	1	1	3	4	05/20/97	Cantor	435	6	06/05/95
	CR	5	6	3	3	4	9	6	05/27/97	Sakurai et al.	250	288	03/17/95
	CS	5	6	3	5	7	1	3	06/03/97	Labowsky	250	282	06/16/95
	CT	5	6	4	3	8	0	0	07/01/97	Tarantino et al.	436	518	09/21/95
	CU	5	6	5	0	4	8	9	07/22/97	Lam et al.	530	334	06/19/91
	CV	5	6	5	4	1	5	0	08/05/97	King et al.	435	6	06/07/95
	CW	5	6	6	3	2	4	2	03/31/95	Ghosh et al.	525	329.4	09/02/92
	CX	5	6	6	5	9	6	7	09/09/97	Coxon et al.	250	287	05/24/96
	CY	5	6	7	0	3	2	2	09/23/97	Eggers et al.	435	6	06/01/95
	CZ	5	6	7	0	3	8	1	09/23/97	Jou et al.	436	518	05/08/95
	DA	5	6	7	7	1	9	5	10/14/97	Winker et al.	436	518	11/20/92
	DB	5	6	8	3	8	8	1	11/04/97	Skiena et al.	435	6	10/20/95
	DC	5	6	8	6	6	5	6	11/11/97	Amirav et al.	73	23.41	02/27/96
	DD	5	6	8	8	6	4	2	11/18/97	Chrissey et al.	435	6	12/01/94
	DE	5	6	9	1	1	4	1	11/25/97	Köster	435	6	06/06/95
✓	DF	5	6	9	3	4	6	3	12/02/97	Edwards et al.	435	6	12/23/92

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<i>M</i>	DG	5	7	0	0	6	4	2	12/23/97	Monforte, et al.	435	6	05/22/95
	DH	5	7	1	0	0	2	8	01/20/98	Eyal et al.	435	91.1	10/04/94
	DI	5	7	1	6	7	8	0	02/10/98	Edwards et al.	435	6	02/07/95
	DJ	5	7	1	6	8	2	5	02/10/98	Hancock et al.	435	286.5	11/01/95
	DK	5	7	2	3	3	2	0	03/03/98	Dehlinger et al.	435	91.1	08/29/95
	DL	5	7	2	6	0	1	4	03/10/98	Edwards et al.	435	6	09/17/93
	DM	5	7	3	8	9	9	0	04/14/98	Edwards et al.	435	6	06/07/95
	DN	5	7	4	3	9	6	0	04/28/98	Tisone	118	683	07/26/96
	DO	5	7	4	4	1	3	1	04/28/98	Edwards et al.	424	78.08	06/07/95
	DP	5	7	5	6	0	5	0	05/29/98	Ershow et al.	422	100	05/26/95
	DQ	5	7	5	9	7	7	9	06/02/98	Dehlinger et al.	435	6	01/11/96
	DR	5	7	6	3	2	6	3	06/09/98	Dehlinger et al.	435	287	06/24/96
	DS	5	7	7	0	2	7	2	06/23/98	Biemann et al.	427	421	04/28/95
	DT	5	7	7	0	3	6	7	06/23/98	Southern et al.	435	6	02/05/96
	DU	5	7	7	0	8	6	0	06/23/98	Franzen	250	288	07/10/97
	DV	5	7	7	7	3	2	4	07/07/98	Hillenkamp	250	288	09/19/96
	DW	5	7	8	9	3	9	5	04/08/98	Abramson et al.	514	152	08/30/96
	DX	5	7	9	8	2	1	0	08/25/98	Canard et al.	435	6	11/20/95
	DY	5	8	0	7	5	2	2	09/98	Brown et al.	422	50	06/07/95
	DZ	5	8	2	8	0	6	3	10/27/98	Köster et al.	250	288	04/02/97
	EA	5	8	3	0	6	5	5	11/03/98	Monforte, et al.	435	6	04/26/96
✓	EB	5	8	4	6	7	1	7	12/8/98	Brow et al.	435	6	01/24/96

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<i>u</i>	EC	5	8	5	1	7	6	5	12/22/98	Köster	435	6	05/30/95
	ED	5	8	5	3	9	8	9	12/29/98	Jeffreys et al.	435	6	05/06/96
	EE	5	8	5	4	4	8	6	12/29/98	Dreyfus	250	288	12/27/96
	EF	5	8	6	4	1	3	7	01/26/99	Becker, et al.	250	287	10/01/96
	EG	5	8	6	9	2	4	0	02/09/99	Patterson	435	6	05/19/95
	EH	5	8	6	9	2	4	1	02/09/99	Edwards et al.	435	6	06/07/95
	EI	5	8	6	9	2	4	2	10/99	Kamb	435	6	09/18/95
	EJ	5	8	7	2	0	0	3	02/16/99	Köster	435	283.1	05/30/95
	EK	5	8	7	2	0	1	0	02/16/99	Karger et al.	436	173	07/03/96
	EL	5	8	8	5	7	7	5	03/23/99	Haff et al.	435	6	10/04/96
	EM	5	8	8	5	8	4	1	03/23/99	Higgs Jr. et al.	436	89	09/11/96
	EN	5	8	8	8	7	7	8	03/30/99	Shuber	435	91.1	06/16/97
	EO	5	8	8	8	8	1	9	03/30/99	Golet et al.	435	5	03/05/91
	EP	5	9	0	0	4	8	1	05/04/99	Lough et al.	536	55.3	11/06/96
	EQ	5	9	2	5	5	2	0	07/20/99	Tully et al.	435	6	02/14/97
	ER	5	9	2	7	5	4	7	07/27/99	Papen et al.	222	57	06/12/98
	ES	5	9	2	8	9	0	6	07/27/99	Köster et al.	435	91.2	05/09/96
	ET	5	9	2	8	9	5	2	07/27/99	Hutchins et al.	436	50	11/05/97
	EU	5	9	6	5	3	6	3	10/12/99	Monforte et al.	435	6	12/02/96
	EV	5	9	6	9	3	5	0	10/19/99	Kerley et al.	250	287	03/17/98
	EW	5	9	7	5	4	9	2	11/02/99	Brenes	251	175	07/14/97
✓	EX	5	9	7	6	7	9	8	11/02/99	Parker et al.	435	6	02/28/97

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Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816APPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
<i>m</i>	EY	5	9	8	5	3	5	6	11/16/99	Schultz et al.	427	8	10/18/94
	EZ	6	0	0	1	5	6	7	12/14/99	Brow et al.	435	6	07/12/96
	FA	6	0	0	4	7	4	4	12/21/99	Goelett et al.	435	5	10/11/91
	FB	6	0	0	6	1	7	1	12/21/99	Vines et al.	702	184	07/28/97
	FC	6	0	0	7	9	8	7	12/28/99	Cantor et al.	435	6	10/15/96
	FD	6	0	1	0	8	4	9	01/04/00	Edwards et al.	435	6	06/07/95
	FE	6	0	1	7	6	9	3	01/25/00	Yates III et al.	435	5	03/14/94
	FF	6	0	2	2	6	8	8	02/08/00	Jurinke et al.	435	6	05/13/96
	FG	6	0	2	4	9	2	5	02/15/00	Little et al.	422	100	01/23/97
	FH	6	0	2	5	1	9	3	02/15/00	Weiss	435	320.1	03/14/97
	FI	6	0	2	7	8	9	0	02/22/00	Ness et al.	435	6	07/22/97
	FJ	6	0	4	0	1	9	3	03/21/00	Winkler et al.	436	180	08/04/98
	FK	6	0	4	3	0	3	1	03/28/00	Köster et al.	435	6	03/18/96
	FL	6	0	5	1	3	7	8	04/18/00	Monforte et al.	435	6	03/04/97
	FM	6	0	6	0	0	2	2	05/09/00	Pang et al.	422	65	07/03/97
	FN	6	0	7	4	8	2	3	06/13/00	Köster	435	6	11/06/96
	FO	6	0	9	0	5	5	8	07/18/00	Butler et al.	435	6	09/18/98
	FP	6	1	0	4	0	2	8	08/15/00	Hunter et al.	250	288	05/29/98
	FQ	6	1	1	0	4	2	6	08/29/00	Shalon et al.	422	68.1	12/30/97
	FR	6	1	1	1	2	5	1	08/29/00	Hillenkamp	250	288	09/19/97
	FS	6	1	2	1	0	4	8	09/19/00	Zaffaroni et al.	436	45	10/18/94
<i>✓</i>	FT	6	1	2	4	1	2	9	09/26/00	Szafranski	435	252.33	02/06/98

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John C.

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<i>h</i>	FU	6	1	3	2	6	8	5	10/17/00	Kercso et al.	422	104	08/10/98
	FV	6	1	3	3	4	3	6	10/17/00	Köster et al.	536	24.3	09/19/97
	FW	6	1	3	6	2	6	9	10/24/00	Winkler et al.	422	61	04/21/95
	FX	6	1	4	0	0	4	5	10/31/00	Wohlstadter et al.	435	6	03/06/97
	FY	6	1	4	0	0	5	3	10/31/00	Köster	435	6	09/25/98
	FZ	6	1	4	6	8	5	4	11/14/00	Köster et al.	435	1.1	08/31/95
	GA	6	1	4	7	3	4	4	11/14/00	Annis et al.	250	281	01/19/99
	GB	6	1	8	8	0	6	4	02/13/01	Köster	250	282	01/28/99
	GC	6	1	9	4	1	4	4	02/27/01	Koster	435	6	03/18/96
	GD	6	1	9	7	4	9	8	03/06/01	Koster	435	5	3/17/95
	GE	6	2	0	7	3	7	0	03/27/01	Little et al.	435	6	09/02/97
	GF	6	2	0	7	3	9	0	03/27/01	Cantor et al.	435	7.1	10/03/97
	GG	6	2	1	4	5	5	1	04/10/01	Sanghvi et al.	435	6	07/27/98
	GH	6	2	2	1	6	0	1	04/24/01	Köster et al.	435	6	11/02/99
	GI	6	2	2	1	6	0	5	04/24/01	Köster	435	6	02/15/00
	GJ	6	2	2	5	0	6	1	05/01/01	Becker, Köster, Cantor	435	6	03/10/99
	GK	6	2	2	5	4	5	0	05/01/01	Köster	536	22.1	06/07/95
	GL	6	2	3	2	0	7	6	05/15/01	Schulz	435	6	02/04/00
	GM	6	2	3	5	4	7	8	05/22/01	Köster	435	6	04/06/99
	GN	6	2	3	8	8	7	1	05/29/01	Köster	435	6	05/08/00
	GO	6	2	5	8	5	3	8	07/10/01	Köster	435	6	04/06/99
✓	GP	6	2	6	5	7	1	6	07/24/01	Hunter et al.	250	288	02/29/00

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<i>u</i>	GQ	6	2	6	8	1	3	1	07/31/01	Kang et al.	435	6	12/15/97
	GR	6	2	6	8	1	4	4	07/31/01	Köster	435	6	09/15/99
	GS	6	2	7	0	8	3	5	08/07/01	Hunt et al.	427	79	10/07/99
	GT	6	2	7	7	5	7	3	08/21/01	Köster	435	6	4/6/99
	GU	6	2	8	4	4	9	7	09/04/01	Cantor et al.	435	91.2	04/08/99
	GV	6	2	8	7	8	4	4	09/11/01	Szafranski et al.	435	252.33	02/06/98
	GW	6	3	0	0	0	7	6	10/09/01	Köster	435	6	01/31/00
	GX	6	3	0	3	3	0	9	10/16/01	Jurinke et al.	435	6	06/21/99
	GY	6	3	2	2	9	7	0	11/27/01	Little et al.	435	6	09/02/98

FOREIGN PATENT DOCUMENTS

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<i>u</i>	GZ	0	0	5	1	0	5	3	08/31/00	PCT				
	HA	0	0	5	6	4	4	6	9/28/00	PCT				
	HB	0	0	6	0	3	6	1	10/12/00	PCT				
	HC	0	1	7	5	4	6	7	03/26/86	EP				
	HD	0	1	9	6	6	0	7	12/20/01	PCT				
	HE	0	3	6	0	6	7	6	03/28/90	EP				X*
	HF	0	5	4	3	5	5	0	05/26/93	EP A1				
	HG	0	5	9	3	7	8	9	04/27/94	EP (A1)				
	HH	0	5	9	6	2	0	5	05/11/94	EP				
	HI	0	6	8	3	2	3	4	11/22/95	EP				

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													Yes	No
<i>u</i>	HJ	0	7	7	1	0	1	9	05/02/97	EP				
	HK	0	8	2	8	8	5	5	12/15/99	EP				
	HL	1	9	6	1	7	0	11	04/27/96	DE				X+
	HM	1	9	6	1	8	0	32	05/04/96	DE				X+
	HN	1	9	6	2	8	1	78	07/12/96	DE				X*
	HO	1	9	7	3	1	4	79	08/06/98	DE A1				X*
	HP	1	9	7	5	4	9	78	12/11/97	DE				X+
	HQ	2	0	1	7	1	0	5	03/20/79	UK				
	HR	2	2	1	5	3	9	9	08/28/90	JP				X*
	HS	2	2	3	3	6	5	4	01/16/91	GB				
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	HV	2	3	3	2	2	7	3	06/16/99	UK				
	HW	2	5	9	7	2	6	0	05/02/91	FR			X	
	HX	2	7	4	9	6	6	2	11/06/96	FR				X*
	HY	3	2	2	1	6	8	1	12/08/83	DE			X	
	HZ	4	1	7	8	3	5	9	06/25/92	JP A				X*
	IA	4	4	3	1	1	7	4	03/07/96	DE (A1)				X*
	IB	4	4	3	8	6	3	0	05/02/96	DE (A1)				X*
	IC	6	3	2	3	0	0	86	09/26/88	JP				X*
	ID	8	5	0	2	9	0	7	07/04/85	PCT				
<i>u</i>	IE	8	9	0	3	4	3	2	04/20/89	PCT				

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	II	9	0	0	1	5	6	4	02/22/90	PCT				
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	IK	9	1	1	5	6	0	0	10/17/91	PCT				
	IL	9	2	0	5	2	8	7	04/02/92	PCT				
	IM	9	3	0	9	6	6	8	05/27/93	PCT				
	IN	9	3	1	5	4	0	7	08/05/93	PCT				
	IO	9	3	2	3	5	6	3	11/25/93	PCT				
	IP	9	3	2	4	8	3	4	12/09/93	PCT				
	IQ	9	4	1	6	1	0	1	07/21/94	PCT				
	IR	9	4	2	0	9	7	8	09/15/94	PCT				
	IS	9	4	2	1	8	2	2	09/29/94	PCT				
	IT	9	4	2	7	7	1	9	11/16/95	PCT				
	IU	9	4	2	8	4	1	8	12/08/94	PCT				
	IV	9	5	0	4	1	6	0	09/20/95	PCT				
	IW	9	5	0	7	3	6	1	03/16/95	PCT				X*
	IX	9	5	1	3	3	8	1	05/18/95	PCT				
	IY	9	5	1	3	5	3	8	05/18/95	PCT				
	IZ	9	5	1	5	4	0	0	06/08/95	PCT				
<i>✓</i>	JA	9	5	2	5	7	3	7	09/28/95	PCT				

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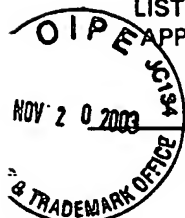
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													Yes	No
<i>h</i>	JB	9	5	3	1	4	2	9	11/23/95	PCT				
	JC	9	5	3	5	5	0	5	12/28/95	PCT				
	JD	9	6	1	0	6	4	8	04/11/96	PCT				
	JE	9	6	1	4	4	0	6	05/17/96	PCT				
	JF	9	6	1	5	2	6	2	05/23/96	PCT				
	JG	9	6	1	7	0	8	0	06/06/96	PCT				
	JH	9	6	2	1	0	4	2	07/11/96	PCT				
	JI	9	6	2	9	4	3	1	09/26/96	PCT				
	JJ	9	6	3	0	5	4	5	10/03/96	PCT				
	JK	9	6	3	2	5	0	4	10/17/96	PCT				
	JL	9	6	3	6	9	8	7	11/21/96	PCT				
	JM	9	6	3	7	6	3	0	11/28/96	PCT				
	JN	9	7	0	8	3	0	6	03/06/97	PCT				
	JO	9	7	1	9	1	1	0	05/29/97	PCT				
	JP	9	7	3	3	0	0	0	09/12/97	PCT				
	JQ	9	7	3	7	0	4	1	10/09/97	PCT				
	JR	9	7	4	0	4	6	2	10/30/97	PCT				
	JS	9	7	4	2	3	4	8	11/13/97	PCT				
	JT	9	7	4	3	6	1	7	11/20/97	PCT				
	JU	9	8	0	3	2	5	7	01/18/98	PCT			x	
	JV	9	8	1	1	2	4	9	03/19/98	PCT				
<i>V</i>	JW	9	8	1	2	3	5	5	03/26/98	PCT				

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<i>u</i>	JX	9	8	1	2	7	3	4	03/26/98	PCT				
	JY	9	8	1	4	9	8	2	04/09/98	PCT				
	JZ	9	8	2	0	0	1	9	05/14/98	PCT				
	KA	9	8	2	0	0	2	0	05/14/98	PCT				
	KB	9	8	2	0	1	6	6	05/14/98	PCT				
	KC	9	8	2	3	2	8	4	06/04/98	PCT				
	KD	9	8	2	4	9	3	5	11/06/98	PCT				
	KE	9	8	2	6	0	9	5	06/18/98	PCT				
	KF	9	8	3	3	0	5	2	07/30/98	PCT				
	KG	9	8	3	3	8	0	8	08/06/98	PCT				
	KH	9	8	3	5	6	0	9	08/20/98	PCT				
	KI	9	8	5	4	7	5	1	12/03/98	PCT				
	KJ	9	9	0	5	3	2	3	02/04/99	PCT				
	KK	9	9	1	2	0	4	0	03/11/99	PCT				
	KL	9	9	1	4	3	6	2	03/25/99	PCT				
	KM	9	9	3	1	2	7	3	06/24/99	PCT				
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	KO	9	9	5	5	7	1	8	11/04/99	PCT				
	KP	9	9	5	7	3	1	8	11/11/99	PCT				

* An English Derwent Abstract is provided.

+ An English Equivalent Patent is provided.

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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<i>n</i>	KQ	"Invitation To Pay Additional Fees" with Partial International Search Report for International Application PCT/US 01/19249, dated November 11, 2002.
	KR	Aberth <i>et al.</i> , "Secondary Ion Mass Spectrometry with Cesium Ion Primary Beam and Liquid Target Matrix for Analysis of Bioorganic Compounds", <i>Anal. Chem.</i> 54:2029-2034 (1982)
	KS	Adler <i>et al.</i> , "Cell Membrane Coating with Glutaraldehyde: Application to a Versatile Solid-Phase Assay for Thyroid Membrane Proteins and Molecules Interacting with Thyroid Membranes", <i>Anal. Biochem.</i> , 148:320-327 (1985)
	KT	Bai <i>et al.</i> , "Matrix-assisted Laser Desorption/Ionization Mass Spectrometry of Restriction Enzyme-digested Plasmid DNA Using an Active Nafion Substrate", <i>Rapid Comm. Mass Spec.</i> 8:687-691 (1994)
	KU	Bains <i>et al.</i> , "A Novel Method For Nucleic Acid Sequence Determination", <i>J. Theor Biol.</i> , 135:303-307 (1988)
	KV	Bannwarth, W., "Solid-Phase Synthesis of Oligodeoxynucleotides Containing Phosphoramidate Internucleotide Linkages and their Specific Chemical Cleavage", <i>Helvetica Chimica Acta</i> , 71:1517-1527, (1988)
	KW	Batista-Viera <i>et al.</i> , "A New Method for Reversible Immobilization of Thiol Biomolecules Based on Solid-Phase Bound Thiol-sulfonate Groups", <i>App. Biochem. Biotech.</i> , 31:175-195 (1991)
	KX	Belanger <i>et al.</i> , "Molecular Mass and Carbohydrate Structure of Prostate Specific Antigen: Studies for Establishment of an International PSA Standard", <i>Prostate</i> 27(4):187-197 (1995)
	KY	Benner <i>et al.</i> , "DNA Base-Pair Substitutions Detected in Double-Stranded DNA with Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry", <i>Eur. Mass Spectrom.</i> , 1:479-485 (1995)
	KZ	Berkenkamp <i>et al.</i> , "Performance of Infrared Matrix-assisted Laser Desorption/Ionization Mass Spectrometry with Lasers Emitting in the 3 μ m Wavelength Range", <i>Rapid Comm. Mass Spec.</i> , 11:1399-1406 (1997)
	LA	Börnsen <i>et al.</i> , "Influence of Solvents and Detergents on Matrix-assisted Laser Desorption/Ionization Mass Spectrometry Measurements of Proteins and Oligonucleotides", <i>Rapid Comm. Mass Spec.</i> , 11:603-609 (1997)
<i>v</i>	LB	Broccoli <i>et al.</i> , "Telomerase Activity in Normal and Malignant Hematopoietic Cells", <i>Proc. Nat'l. Acad. Sci. U.S.A.</i> , 92:9082-9086 (1995)

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u	LC	Broude <i>et al.</i> , "Enhanced DNA Sequencing By Hybridization", <i>Proc. Natl. Acad. Sci. USA</i> , <u>91</u> :3072-3076 (1994)
	LD	Brown <i>et al.</i> , "Mass Resolution Improvement by Incorporation of Pulsed Ion Extraction in a Matrix-Assisted Laser Desorption/Ionization Linear Time-of-Flight Mass Spectrometer", <i>Anal. Chem.</i> , <u>67</u> :1998-2003 (1995)
	LE	Burlingame <i>et al.</i> , "Mass Spectrometry", <i>Anal. Chem.</i> , <u>70</u> :647R-716R (1998)
	LF	Busch <i>et al.</i> , "Mass Spectrometry of Large, Fragile, and Involatile Molecules", <i>Science</i> , <u>218</u> :247-254 (1982)
	LG	Certified English translation of the German Patent Application DE 3221681, "Mass spectrometer with an external sample holder."
	LH	Certified English translation of the PCT Patent Application WO 98/03257, "Solid supports for analytical measurement methods, their production and their use."
	LI	Certified English translation of the French Patent Application FR 2597260, "A process for automatic direct introduction of samples into a mass spectrometer and a device for implementing this process."
	LJ	Certified English translation of the Russian article: Elov <i>et al.</i> "RNA Synthesis by Use of T7 RNA Polymerase and Immobilized DNA in a Flowing-type Reactor", <i>Bioorganicheskaya Khimiya</i> <u>17</u> (6):789-794 (1999)
	LK	Ch'ang <i>et al.</i> , "Detection of $\Delta F508$ Mutation of the Cystic Fibrosis Gene by Matrix-assisted Laser Desorption/Ionization Mass Spectrometry", <i>Rapid Comm. in Mass Spectrom.</i> , <u>9</u> :772-774 (1995)
	LL	Chait <i>et al.</i> , "Weighing Naked Proteins: Practical, High-Accuracy Mass Measurement of Peptides and Proteins", <i>Science</i> , <u>257</u> :1885-1894 (1992)
	LM	Chan <i>et al.</i> , "OMS Letters", <i>Org. Mass Spec.</i> , <u>27</u> :53-56 (1992)
	LN	Chee, "Enzymatic Multiplex DNA Sequencing," <i>Nucl. Acids Res.</i> <u>19</u> (12):3301-3305 (1991)
	LO	Chee <i>et al.</i> , "Accessing Genetic Information with High-Density DNA Arrays", <i>Science</i> , <u>274</u> :610 (1996)
↓	LP	Chen <i>et al.</i> , "Stable-Isotope-Assisted MALDI-TOF Mass Spectrometry for Accurate Determination of Nucleotide Compositions of PCR Products", <i>Anal. Chem.</i> <u>71</u> (15):3118-3125 (1999).

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USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



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<i>u</i>	LQ	Church <i>et al.</i> , "Multiplex DNA Sequencing," <i>Science</i> , <u>240</u> :185-188 (1988)
	LR	Collins <i>et al.</i> , "A DNA Polymorphism Discovery Resource for Research on Human Genetic Variation", <i>Genome Res.</i> , <u>8</u> :1229-1231 (1998)
	LS	Cornett <i>et al.</i> , "Liquid Mixtures for Matrix-Assisted Laser Desorption", <i>Anal. Chem.</i> , <u>65</u> :2608-2613 (1993)
	LT	Cosstick <i>et al.</i> , "Synthesis and Properties of Dithymidine Phosphate Analogues Containing 3'-thiothymidine", <i>Nucl. Acid Res.</i> , <u>18</u> :829-835 (1990)
	LU	Crain <i>et al.</i> , "Applications of Mass Spectrometry to the Characterization of Oligonucleotides and Nucleic Acids", <i>Curr. Opin. Biotech.</i> , <u>9</u> :25-34 (1998)
	LV	Dale <i>et al.</i> , "Graphite/Liquid Mixed Matrices for Laser Desorption/Ionization Mass Spectrometry", <i>Anal. Chem.</i> , <u>68</u> :3321-3329 (1996)
	LW	Dass <i>et al.</i> , "Particle Beam Induced Reactions between Peptides and Liquid Matrices", <i>Anal. Chem.</i> , <u>60</u> :2723-2729 (1988)
	LX	Derwent# 009135586, WPI Acc No. 1992-263024, citing Japanese Patent JP 4178359 A, "New anti-inflammatory tetracycline derivs. - for treating articular rheumatism, osteoarthritis, Reiter's syndrome, Lyme disease, etc."
	LY	Derwent# 008415766, WPI Acc. No. 90-302767/199040, citing Japanese Patent Number JP 2215399 A, "Method for detecting DNA - includes denaturing to single strand, combining with DNA primer having corresp. base sequence forming replicator etc."
	LZ	Derwent# 011458787, WPI Acc. No. 1997-436694/199741, citing German Patent Number DE 19628178 C, "Loading matrix-assisted laser desorption-ionisation sample plate for mass spectrometric analysis - using simple multi-pipette to prepare tens of thousands of samples rapidly and reliably for e.g. biochemical and genetic investigations optionally using electrophoretic concentration and delivery technique."
	MA	Derwent# 010725941, WPI Acc. No. 1996-222896/199623, citing German Patent Number DE 4438630 A, "Amplification of non-characterized DNA fragments-using only a single primer, with formation of hairpin loops during a second strand synthesis."
<i>u</i>	MB	Derwent# 010643408, WPI Acc. No. 1996-140362/199615, citing German Patent DE 4431174 A, "Detecting tumour specific mRNA by conversion to cDNA and amplification - provides early, sensitive and specific diagnosis and monitoring, partic. by analysis of blood or sputum."

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John W.

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u	MC	Derwent# 010222178, WPI Acc. No. 95-123433/199516, citing PCT Patent Application WO 9507361 A, "Detecting presence and position of mutation(s) in double stranded DNA -by amplification, labelling strands with different markers, hybridisation and detecting heteroduplex by cleavage of unpaired strands."
	MD	Derwent# 011635345, WPI Acc. No. 1998-052473/199805, citing French Patent Number FR 2749662 A, "Automatic laboratory for analysing samples -has robot and analysers in one chamber connected by sample transfer conveyors to second chamber with human operator access."
	ME	Derwent# 008221915, WPI Acc. No. 90-108916/199015, citing European Patent Application EP 0360676 A, "Size analysis of biological mol. fragments -by mass spectrometry, esp. in nucleic acid sequencing."
	MF	Derwent# 012012061, WPI Acc. No. 1998-428971/199837, citing German Patent Number DE 19731479 A, "Device for analysis of target chemicals has light emitting array -with chemical binder elements attached to capture target chemicals which change emitted light pattern accordingly."
	MG	Derwent# 007678032, WPI Acc No. 88-311964/198844, citing Japanese Patent Application JP 63230086 A, "Carrier immobilising physiological active substance - comprises binding chain-form disulphide cpd. via epoxy gp. with latex contg. polymer particles."
	MH	Drmanac et al., "Sequencing Of Megabase Plus DNA By Hybridization: Theory Of The Method", <i>Genomics</i> , 4:114-128 (1989)
	MI	Drmanac et al., "DNA Sequence Determination by Hybridization: A Strategy For Efficient Large-Scale Sequencing", <i>Science</i> , 260:1649-1652 (1993)
	MJ	Duchateau et al., "Selection of buffers and of an ion-pairing agent for thermospray liquid chromatographic-mass spectrometric analysis of ionic compounds", <i>J. Chromatogr.</i> , 552:605-612 (1991)
	MK	Eckstein, F., (Ed.). "Oligonucleotides and Analogues: A Practical Approach", <i>Oxford University Press</i> , 56-57, 137-139, 256-259, (1991)
	ML	Elov et al., "Synthesis of RNA using T7 RNA polymerase and immobilized DNA in a stream type reactor", <i>Bioorganicheskaia Khimiia</i> , 17(6):789-794 (1999)
↓	MM	Fabris et al., "Massive Cluster Impact Ionization on a Four Sector Tandem Mass Spectrometer", <i>J. Mass Spec.</i> , 30:140-143 (1995)

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MN	Feng et al., "The RNA Component of Human Telomerase", <i>Science</i> , <u>269</u> (5228):1236-1241 (1995)
MO	Fitzgerald et al., "Basic Matrices for the Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry of Proteins and Oligonucleotides," <i>Analytical Chemistry</i> <u>65</u> : 3204-3211 (1993)
MP	Foster, et al., "Naming Names in Human Genetic Variation Research", <i>Genome Res.</i> , <u>8</u> :755-757 (1998)
MQ	Frohman, M., "Cloning PCR Products" Chapter 12 in <i>The Polymerase Chain Reaction</i> , Mullis et al., (Eds.), Birkhauser, Boston, pp. 14-37 (1994)
MR	George et al., "Current Methods in Sequence Comparison and Analysis," Chapter 12 of: <i>Macromolecular Sequencing and Synthesis, Selected Methods and Applications</i> , Schlesinger (Ed.), 127-149 (1988)
MS	Gross et al. "Matrix-assisted laser desorption/ionisation-mass spectrometry applied to biological macromolecules" <i>Trends in Analytical Chem.</i> V 17(8-9) pp.470-484 (1998).
MT	Grotjahn, L., "Oligonucleotide Sputtering from Liquid Matrices", <i>Springer Proc. Phys.</i> , <u>9</u> :118-125 (1986)
MU	Grotjahn, L., "Sequencing of Oligodeoxyribonucleotides by Negative FAB - MS", <i>Int. J. Mass Spec. Ion Phys.</i> , <u>46</u> :439-442 (1983)
MV	Haag et al., "Rapid Identification and Speciation of Haemophilus Bacteria by Matrix-assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry", <i>J. Mass Spec.</i> , <u>33</u> (8):750-756 (1998)
MW	Hacia et al., "Detection of Heterozygous Mutations in BRCA1 Using High Density Oligonucleotide Arrays and Two-Colour Fluorescence Analysis", <i>Nature Genetics</i> , <u>14</u> :441-447 (1996)
MX	Harada et al., "Diethanolamine Assisted Secondary Ion Mass Spectrometry of Naturally Occurring Complex Oligosaccharides", <i>Org. Mass Spec.</i> , <u>17</u> (8):386-391 (1982)
MY	Herpich et al., "HPLC of Nucleic Acid Components with Volatile Mobile Phases 1. Fast Nucleotide Separators Using Ammonium Carbonate and Ammonium Bicarbonate Gradients", <i>J. High Resolut. Chromatogr.</i> , <u>15</u> :41-42 (1992)
MZ	Hinton et al., "The Application of Robotics to Fluorometric and Isotopic Analyses of Uranium", <i>Chemometrics and Intelligent Laboratory Systems: Laboratory Info. Management</i> , <u>21</u> :223-227 (1993)

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	NA	Hunter et al., "Frozen-solution MALDI Mass Spectrometry Studies of DNA", <i>Proc SPIE-Int Soc. Opt. Eng.</i> , <u>2680</u> :384-389 (1996)
	NB	Jacobson et al., "Applications of Mass Spectrometry to DNA Sequencing", <i>GATA</i> , <u>8(8)</u> :223-229 (1991)
	NC	Jacutin et al. "Test of the potential of a dATP surrogate for sequencing via MALDI-MS" <i>Nucleic Acid Research</i> V.25(24) pp.5072-5076 (1997)
	ND	Ji et al., "Two-dimensional Electrophoretic Analysis of Proteins Expressed by Normal and Cancerous Human Crypts: Application of Mass Spectrometry to Peptide-mass Fingerprinting", <i>Electrophoresis</i> , <u>15</u> :391-405 (1994)
	NE	Jiang et al., "The Liquid Matrix Effects for Determining Ionization of Oligonucleotides by LSIMS", <i>Chin Sci. Bull.</i> , <u>37(17)</u> :1431-1435 (1992)
	NF	Jonkman et al., "Low-temperature Positive Secondary Ion Mass Spectrometry of Neat and Argon-Diluted Organic Solids", <i>Anal. Chem.</i> , <u>50(14)</u> :2078-2082 (1978)
	NG	Kambara, H., "Characteristics of Molecular Secondary Ion Mass Spectrometry", <i>Springer Ser. Chem. Phys.</i> , <u>36</u> :357-362 (1984)
	NH	Khrapko et al., "A Method for DNA Sequencing by Hybridization with Oligonucleotide Matrix", <i>J. DNA Sequencing and Mapping</i> , <u>1</u> :375-388 (1991)
	NI	Khrapko et al., "An oligonucleotide hybridization approach to DNA sequencing," <i>FEBS Letters</i> <u>256(1,2)</u> : 118-122 (1989)
	NJ	Kim et al., "Investigation of Porphyrins and Metalloporphyrins by Liquid Matrix-assisted Laser Desorption Mass Spectrometry", <i>Mikrochim Acta</i> , <u>113</u> :101-111 (1994)
	NK	Kirpekar, et al., "DNA Sequence Analysis by MALDI Mass Spectrometry", <i>Nucleic Acids Res.</i> , <u>26(11)</u> :2554-2559 (1998)
	NL	Kolli et al., "A New Matrix for Matrix-assisted Laser Desorption/Ionization of Magnetic Sector Instruments with Point Detectors", <i>Rapid Comm. Mass Spec.</i> , <u>10</u> :923-926 (1996)
	NM	Köster et al., "A Strategy for Rapid and Efficient DNA Sequencing by Mass Spectrometry", <i>Nat. Biotechnol.</i> , <u>14</u> :1123-1128 (1996)
	NN	Köster et al., "Oligonucleotide Synthesis and Multiplex DNA Sequencing Using Chemiluminescent Detection," <i>Nucl. Acids Res.</i> , Symposium Series, <u>24</u> :318-321 (1991)

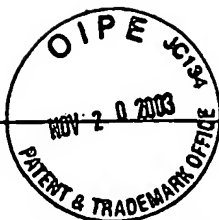
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u	NO	Kovacik <i>et al.</i> , "Liquid Secondary Ion Mass Spectrometry of Methyl Glycosides of Oligosaccharides Using Matrices Containing Carboxamides", <i>Rapid Comm. Mass Spec.</i> , <u>10</u> :166-1667 (1996)
	NP	Krishnamurthy <i>et al.</i> , "Rapid Identification of Bacteria by Direct Matrix-assisted Laser Desorption/Ionization Mass Spectrometric Analysis of Whole Cells", <i>Rapid Comm. Mass Spec.</i> , <u>10</u> :1992-1996 (1996)
	NQ	Krishnamurthy <i>et al.</i> , "Biomolecules and Mass Spectrometry", <i>J. of Natural Toxins</i> , <u>6</u> (2):121-162 (1997)
	NR	Lagerstrom <i>et al.</i> , "Capture PCR: Efficient Amplification of DNA Fragments Adjacent to a Known Sequence in Human and YAC DNA", <i>PCR Methods and applications</i> , <u>1</u> :111-119 (1991)
	NS	Laramée <i>et al.</i> , "Evidence for Radical Anion Formation During Liquid Secondary Ion Mass Spectrometry Analysis of Oligonucleotides and Synthetic Oligomeric Analogues: A Deconvolution Algorithm for Molecular Ion Region Clusters", <i>Anal. Chem.</i> , <u>61</u> :2154-2160 (1989)
	NT	Leonard <i>et al.</i> , "High-resolution Structure of Mutagenic Lesion in DNA," <i>Proc. Nat..Acad. Sci. Biochem.</i> , <u>87</u> :9573-9576 (1990)
	NU	Li <i>et al.</i> , "Pulsed Laser Desorption Method for Volatilizing Thermally Labile Molecules for Supersonic Jet Spectroscopy", <i>Rev. Sci. Instrum.</i> , <u>59</u> (4):557-561 (1988)
	NV	Li <i>et al.</i> , "High-resolution MALDI Fourier Transform Mass Spectrometry of Oligonucleotides", <i>Anal. Chem.</i> , <u>68</u> (13):2090-2096 (1996)
	NW	Little <i>et al.</i> , "Mass Spectrometry from Miniaturized Arrays for Full Comparative DNA Analysis", <i>Nat. Med.</i> , <u>3</u> (12):1413-1416 (1997)
	NX	Liu <i>et al.</i> , "Use of a Nitrocellulose Film Substrate in Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry for DNA Mapping and Screening", <i>Anal. Chem.</i> , <u>67</u> :3482-3490 (1995)
	NY	Loboda <i>et al.</i> , "Extraction Pulse Generator for Time-of-flight Mass Spectrometry", <i>Rev. Sci. Instrum.</i> , <u>66</u> (9):4740-4741 (1995)
	NZ	Lubman <i>et al.</i> , "Linear Mass Reflection with a Laser Photoionization Source for Time-of-flight Mass Spectrometry", <i>Anal. Chem.</i> , <u>55</u> :1437-1440 (1983)
✓	OA	Maskos, U. and E.M. Southern, "Oligonucleotide hybridisations on glass supports: an novel linker for oligonucleotide synthesis and hybridisation properties of oligonucleotides synthesised <i>in situ</i> ," <i>Nucleic Acids Research</i> <u>20</u> (7): 1679-1684 (1992)

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<i>u</i>	OB	Matthews <i>et al.</i> , "Analytical Strategies for the Use of DNA Probes", <i>Anal. Biochem.</i> , <u>169</u> :1-25 (1988)
	OC	Maxam <i>et al.</i> , "A New Method for Sequencing DNA", <i>Proc. Natl. Acad. Sci. USA</i> <u>74</u> (2):560-64 (1977)
	OD	missing author - "Mass Spectrometry Used to Find Mass of Large Intact Nucleic Acids", <i>Chem. Eng. News</i> , p. 55 (1998)
	OE	Mizusawa <i>et al.</i> , "Improvement of the Dideoxy Chain Termination Method of DNA Sequencing by Use of Deoxy-7-deazaguanosine Triphosphate in Place of dGTP", <i>Nucl. Acids Res.</i> , <u>14</u> (3):1319-1324 (1986)
	OF	Moalem <i>et al.</i> , "Cluster formation in the Vapor Produced by laser Pulsing of the $YBa_2Cu_3O_7$ Superconducting Solid", <i>J. of Vac. Sci. Tech.</i> , <u>10</u> (5):3292-3299 (1992)
	OG	Mosca <i>et al.</i> , "Mass Spectrometry and DNA Analysis", <i>Hemoglobin</i> , <u>17</u> (3):261-268 (1993)
	OH	Muddiman <i>et al.</i> , "Length and Base Composition of PCR-Amplified Nucleic Acids Using Mass Measurements from Electrospray Ionization Mass Spectrometry", <i>Anal. Chem.</i> , <u>69</u> (8):1543-1549 (1997)
	OI	Naito <i>et al.</i> , "Detection of Tyrosine Hydroxylase mRNA and Minimal Neuroblastoma Cells by the Reverse Transcription-Polymerase Chain Reaction", <i>Eur. J. Cancer</i> , <u>27</u> (6):762-765 (1991)
	OJ	Nakamaye <i>et al.</i> , "Direct Sequencing of Polymerase Chain Reaction Amplified DNA Fragments Through the Incorporation of Deoxynucleoside α -Thiotriphosphates", <i>Nucl. Acids Res.</i> , <u>16</u> (21):9947-9959 (1988)
	OK	Nelson <i>et al.</i> , "The Accuracy of Quantification from 1D NMR Spectra Using the PIQABLE Algorithm", <i>J. Mag. Res.</i> , <u>84</u> :95-109 (1989)
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	OM	Nordhoff <i>et al.</i> , "Ion Stability of Nucleic Acids in Infrared Matrix-assisted Laser Desorption/Ionization Mass Spectrometry", <i>Nuc. Acids Res.</i> , <u>21</u> (15):3347-3357 (1993)
<i>✓</i>	ON	Nordhoff <i>et al.</i> , "Comparison of IR- and UV-matrix-assisted Laser Desorption/Ionization Mass Spectrometry of Oligodeoxynucleotides", <i>Nuc. Acids Res.</i> , <u>21</u> (13):2460-2465 (1993)

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u	OO	O'Donnell-Maloney et al., "The Development of Microfabricated Arrays for DNA Sequencing and Analysis", <i>TIBTECH</i> , <u>14</u> :401-407 (1996)
	OP	Olsson et al., "Isolation and Characterization of a Tumor Necrosis Factor Binding Protein from Urine", <i>Eur. J. Haematol.</i> , <u>42</u> :270-275 (1989)
	OQ	Ordoukhanian et al., "Design and Synthesis of a Versatile Photocleavable DNA Building Block. Application to Phototriggered Hybridization", <i>J. Am. Chem. Soc.</i> , <u>117</u> :9570-9571 (1995)
	OR	Orita et al., "Detection of Polymorphisms of Human DNA by Gel Electrophoresis as Single-Strand Conformation Polymorphisms", <i>Proc. Natl. Acad. Sci. USA</i> , <u>86</u> :2766-2770, (1989)
	OS	Overberg et al., "Laser Desorption Mass Spectrometry. Part II Performance and Applications of Matrix-assisted Laser Desorption/Ionization of Large Biomolecules", <i>Mass Spect. Biol. Sci.</i> , pp. 181-197 (1992)
	OT	Palejwala et al., "Quantitative Multiplex Sequence Analysis of Mutational Hot Spots. Frequency and Specificity of Mutations Induced by a Site-Specific Ethenocytosine in M13 Viral DNA", <i>Biochem.</i> , <u>32</u> :4105-4111 (1993)
	OU	Pasini et al., "RET Mutations in Human Disease", <i>Trends in Genetics</i> , <u>12</u> (4):138-144 (1996)
	OV	Pevzner et al., "Towards DNA Sequencing Chips", In <i>19th Int Conf Mathematical Foundations of Computer Science</i> , Lecture Notes in Computer Science, Springer-Verlag, Berlin, <u>841</u> :143-158 (1994).
	OW	Pevzner et al., "Rearrangements of DNA Sequences and SBH", <i>Computers Chem.</i> , <u>18</u> (3):221-223 (1994)
	OX	Polettini et al., "Fully-automated Systematic Toxicological Analysis of Drugs, Poisons, and Metabolites in Whole Blood, Urine, and Plasma by Gas Chromatography -- Full Scan Mass Spectrometry", <i>J. Chromatography B</i> , <u>713</u> (1):265-279 (1998)
	OY	Promé et al., "Use of Combined Mass Spectrometry Methods for the Characterization of a New Variant of Human Hemoglobin: The Double Mutant Hemoglobin Villeparisis $\beta 77$ (EF1) His \rightarrow Tyr, $\beta 80$ (EF4) Asn \rightarrow Ser", <i>J. Am. Chem. Soc. Mass Spect.</i> , <u>7</u> :163-167 (1996)
✓	OZ	Richterich et al., "Cytosine Specific DNA Sequencing with Hydrogen Peroxide", <i>Nucl. Acids Res.</i> , <u>23</u> (23):4922-4923 (1995)

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USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

<input checked="" type="checkbox"/>	PA	Ruckman <i>et al.</i> , "Laser-induced Ion Mass Analysis: A Novel Technique for Solid-state Examination", <i>Vacuum</i> , <u>34</u> (10/11):911-924 (1994)
<input type="checkbox"/>	PB	Sadeghi <i>et al.</i> , "Compact Tunable Cr:LiSAF for Infrared Matrix-assisted Laser Desorption/Ionization", <i>Rapid Comm. Mass Spec.</i> , <u>11</u> :393-397 (1997)
<input type="checkbox"/>	PC	Sarkar <i>et al.</i> , "Human Genetic Bi-allelic Sequences (HGBASE), a Database of Intra-genic Polymorphisms", <u>93</u> (5):693-694 (1998)
<input type="checkbox"/>	PD	Schneider <i>et al.</i> , "Increased Stability of Nucleic Acids Containing 7-deaza-guanosine and 7-deaza-adenosine may Enable Rapid DNA Sequencing by Matrix-assisted Laser Desorption Mass Spectrometry", <i>Nucleic Acids Res.</i> , <u>23</u> (9):1570-1575 (1995)
<input type="checkbox"/>	PE	Seckinger <i>et al.</i> , "Purification and Biologic Characterization of a Specific Tumor Necrosis Factor α Inhibitor", <i>J. Biochem.</i> , <u>264</u> (20):11966-11973 (1989)
<input type="checkbox"/>	PF	Senko <i>et al.</i> , "Automated Assignment of Charge States from Resolved Isotopic Peaks for Multiply Charged Ions", <i>J. Am. Soc. Mass Spec.</i> , <u>6</u> :52-56 (1995)
<input type="checkbox"/>	PG	Siegel <i>et al.</i> , "Calicheamicin Derivatives Conjugated to Monoclonal Antibodies: Determination of Loading Values and Distributions by Infrared and UV Matrix-assisted Laser Desorption/Ionization Mass Spectrometry and Electrospray Ionization Mass Spectrometry", <i>Anal. Chem.</i> , <u>69</u> :2716-2726 (1997)
<input type="checkbox"/>	PH	Siebert <i>et al.</i> , "Matrix-assisted Laser Desorption/Ionization Time-of-flight Mass Spectrometry for the Detection of Polymerase Chain Reaction Products Containing 7-Deazapurine Moieties", <i>Anal. Biochem.</i> , <u>243</u> :55-65 (1996)
<input type="checkbox"/>	PI	Siuzdak, G., "The Emergence of Mass Spectrometry in Biochemical Research", <i>PNAS</i> , <u>91</u> :11290-11297 (1994)
<input type="checkbox"/>	PJ	Southern <i>et al.</i> , "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides: Evaluation Using Experimental Modes", <i>Genomics</i> , <u>13</u> :1008-1017 (1992)
<input type="checkbox"/>	PK	Stahl <i>et al.</i> , "Solid Phase DNA Sequencing Using the Biotin-Avidin System", <i>Nucl. Acids Res.</i> , <u>16</u> (7):3025-3039 (1988)
<input type="checkbox"/>	PL	Stults <i>et al.</i> , "Improved Electrospray Ionization of Synthetic Oligodeoxynucleotides", <i>Rapid Comm. Mass Spectrom.</i> , <u>5</u> :359-363 (1991)
<input checked="" type="checkbox"/>	PM	Syvanen <i>et al.</i> , "Detection of Point Mutations by Solid-Phase Methods", <i>Human Mutation</i> , <u>3</u> :172-179 (1994)

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	PN	Szybalski et al., "Universal Restriction Endonucleases: Designing Novel Cleavage Specificities by Combining Adapter Oligodeoxynucleotide and Enzyme Moieties", <i>Gene</i> , <u>40</u> :169-173 (1985)
	PO	Takayama, M., "1,5 Pentamediol as a Matrix for Negative-ion Fast Atom Bombardment Mass Spectrometry", <i>Org. Mass Spec.</i> , <u>26</u> :1123-1124 (1991)
	PP	Tammen et al., "Proteolytic Cleavage of Glucagon-like Peptide-1 by Pancreatic β Cells and by Fetal Calf Serum Analyzed by Mass Spectrometry", <i>J. Chrom. A.</i> , <u>852</u> :285-295 (1999)
	PQ	Tang et al., "Matrix-assisted Laser Desorption/Ionization of Restriction Enzyme-digested DNA", <i>Rapid Comm. Mass Spec.</i> , <u>8</u> :183-186 (1994)
	PR	Tang et al., "Matrix-assisted Laser Desorption/Ionization Mass Spectrometry of Immobilized Duplex DNA Probes", <i>Nucleic Acids Res.</i> , <u>23</u> (16):3126-3131 (1995)
	PS	Tang et al., "Chip-based Genotyping by Mass Spectrometry", <i>Proc. Natl. Acad. Sci. USA</i> , <u>96</u> :10016-10020 (1999)
	PT	Tas et al., "Characterization of Virus Infected Cell Cultures by Pyrolysis/Direct Chemical Ionization Mass Spectrometry", <i>Biomed and Environ Mass Spec.</i> , <u>18</u> :757-760 (1989)
	PU	Thompson, J., "Fitting Robots with White Coats", <i>Lab. Auto. Info. Manag.</i> , <u>31</u> :173-193 (1996)
	PV	Trainor, G., "DNA Sequencing, Automation, and the Human Genome", <i>Anal. Chem.</i> , <u>62</u> :418-426 (1990)
	PW	Uhlmann et al., "Antisense Oligonucleotides: A New Therapeutic Principle", <i>Chemical Reviews</i> , <u>90</u> (4):544-583 (1990)
	PX	Welham et al., "The Rapid Identification of Intact Microorganisms by Matrix-assisted Laser Desorption/Ionization Time-of-flight Mass Spectrometry", <i>Pharmacy and Pharmacology Comm.</i> <u>4</u> :81-87 (1998)
	PY	Williams et al., "p-Nitroaniline/Glycerol: a Binary Liquid Matrix for Matrix-assisted Laser Desorption/Ionization Analysis", <i>Eur. Mass Spec.</i> , <u>4</u> :379-383 (1998)
	PZ	Wolter et al., "Influence of the Matrix on the Analysis of Small Oligoribonucleotides by Fast Atom Bombardment Mass Spectrometry", <i>J. Mass Spec.</i> , <u>30</u> :485-491 (1995)
	QA	Wu et al., "Time-of-Flight Mass Spectrometry of Underivatized Single-Stranded DNA Oligomers by Matrix-Assisted Laser Desorption", <i>Anal. Chem.</i> , <u>66</u> :1637-1645 (1994)

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	QB	Wu <i>et al.</i> , "The Ligation Amplification Reaction (LAR)--Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation", <i>Genomics</i> , <u>4</u> :560-569 (1989)
	QC	Yau <i>et al.</i> , "Threshold Fluences for Production of Positive and Negative Ions in Matrix-assisted Laser Desorption/Ionisation Using Liquid and Solid Matrices", <i>Chem. Phys. Lett.</i> , <u>202(1,2)</u> :93-100 (1993)
	QD	Yoshida <i>et al.</i> , "Detection of High Mass Molecular Ions by Laser Desorption Time-of-flight Mass Spectrometry", <i>Shitsuryo Bunscki</i> , <u>36(2)</u> :59-69 (1988)
	QE	Youil <i>et al.</i> , "Screening for Mutations by Enzyme Mismatch Cleavage with T4 Endonuclease VII", <i>Proc. Natl. Acad. Sci. USA</i> , <u>92</u> :87-91 (1995)
	QF	Zuckermann <i>et al.</i> , "Efficient Methods for Attachment of Thiol Specific Probes to the 3'-ends of Synthetic Oligodeoxyribonucleotides", <i>Nucl. Acids Res.</i> , <u>15(13)</u> :5305-5321 (1987)

EXAMINER



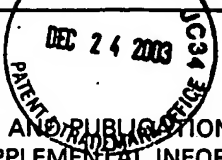
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	APPLICANT Cantor <i>et al.</i>		CUSTOMER NO. 24961
	FILING DATE 08/20/03		GROUP Unassigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
<i>m</i>	A	4	7	7	5	6	1	9	10/16/84	Urdea	435	6	10/04/88
	B	4	9	3	5	3	5	7	02/05/86	Szybalski	435	91	06/19/90
	C	5	0	0	2	8	6	7	03/26/91	Macevitz	435	6	10/24/88
	D	5	1	1	4	8	3	9	05/92	Blocker	435	6	05/26/89
	E	5	1	7	4	9	6	2	12/29/92	Brennan	422	78	01/24/90
	F	5	2	0	2	2	3	1	04/13/93	Drmanac <i>et al.</i>	435	6	06/18/91
	G	5	4	3	6	1	4	3	07/25/95	Hyman	435	91.2	12/23/92
	H	5	6	2	2	8	2	4	04/22/97	Köster	435	6	02/10/95
	I	5	6	9	1	1	4	1	11/25/97	Köster	435	6	06/06/95
	J	5	7	9	8	2	1	0	08/25/98	Canard <i>et al.</i>	435	6	11/20/95
	K	6	0	2	2	6	8	8	02/08/00	Jurinke <i>et al.</i>	435	6	05/13/96
	L	6	2	2	5	0	6	1	05/01/01	Becker <i>et al.</i>	435	6	03/10/99
	M	6	2	3	2	0	7	6	05/15/01	Schultz	435	6	02/04/00
	N	6	2	6	8	1	3	1	07/31/01	Kang <i>et al.</i>	435	6	12/15/97
	O	6	4	8	5	9	1	3	11/26/02	Becker <i>et al.</i>	435	6	10/02/00

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	Sub Class	Translation Yes No	
<i>m</i>	P	0	0	5	6	4	4	6	09/28/00	PCT				
	Q	6	3	5	0	3	0	07	11/02/88	JP				X
	R	8	7	0	4	1	6	5	07/16/87	PCT				
	S	9	3	0	8	3	0	5	04/29/93	PCT				
	T	9	4	1	6	0	9	0	07/21/94	PCT				

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<i>m</i>	U	9	4	2	1	8	1	1	09/29/94	PCT				
↓	V	9	6	1	4	4	0	6	05/17/96	PCT				
	W	9	9	1	4	3	6	2	03/25/99	PCT				

X English language equivalent provided

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>m</i>	X	Benner <i>et al.</i> , "Identification of Denatured Double-stranded DNA by Matrix-assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry", <i>Rapid Commu. Mass Spec.</i> , <u>9</u> :537-540 (1995)
	Y	Benner <i>et al.</i> , "DNA Base-Pair Substitutions Detected in Double-Stranded DNA With Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry", <i>Eur. Mass Spectrum.</i> , <u>1</u> : 479-485 (1995)
	Z	Brenner, "DNA fingerprinting by sampled sequencing", <i>Proc. Natl. Acad. Sci. USA</i> <u>86</u> :8902-8906 (1989).
	AA	Cantor CR, "Report on the sequencing by hybridization workshop," <i>Genomics</i> , <u>13</u> :1378-1383 (1992)
	AB	Cantor <i>et al.</i> , Sequence-directed DNA manipulation for enhanced mapping and sequencing, <i>Human Genome Program, US Department of Energy, DOE Human Genome Program Contractor-Grantee Workshop IV</i> , (1994)
	AC	Ch'ang <i>et al.</i> , "Detection of Δ F508 Mutation of the cystic Fibrosis Gene by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry", <i>Rapid Comm. in Mass Spectrom.</i> , <u>9</u> :772-774, (1995)
	AD	Cosstick <i>et al.</i> , "Synthesis and Properties of dithymidine phosphate analogues containing 3'-thiothymidine", <i>Nucl. Acid Res.</i> , <u>18</u> (4):829-835 (1990)
	AE	Derwent Abstract Dialog File No. 351 Acces. No. 7209274 for Japanese patent JP 63603007, published 11/02/88.
↓	AF	Drmanac <i>et al.</i> , "Laboratory methods: reliable hybridization of oligonucleotides as short as six nucleotides," <i>DNA & Cell Biology</i> <u>9</u> (7):527-534 (1990)

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u	AG	Drmanac <i>et al.</i> , An algorithm for the DNA sequence generation from K-tuple word contents of the minimal number of random fragments, <i>J. Biomol. Struct. Dynamics</i> , 5(5):1085-1102 (1991)
	AH	Köster <i>et al.</i> , "A strategy for rapid and efficient DNA sequencing by mass spectrometry," <i>Nature Biotechnology</i> 14: 1123-1128 (1996)
	AI	Khrapko <i>et al.</i> , "An oligonucleotide hybridization approach to DNA sequencing," <i>FEBS Letters</i> 256(1-2): 118-122 (1989)
	AJ	Liu <i>et al.</i> , "Use of a Nitrocellulose Film Substrate in Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry for DNA Mapping and Screening", <i>Anal. Chem.</i> , 67:3482-3490, (1995)
	AK	Pevzner, P., 1-tuple DNA sequencing: computer analysis, <i>J. Biomol. Struct. Dynamics</i> , 7(1):63-69 (1989)
	AL	Szybalski, "Universal restriction endonucleases: designing novel cleavage specificities by combining adapter oligodeoxynucleotide and enzyme moieties", <i>Gene</i> , 40:169-173 (1985)
	AM	Tang <i>et al.</i> , "Matrix-assisted Laser Desorption/Ionization of Restriction Enzyme-digested DNA", <i>Rapid Comm. Mass Spec.</i> , 8(2):183-186 (1994)
v	AN	Wu <i>et al.</i> , "Time-of-Flight Mass Spectrometry of Underivatized Single-Stranded DNA Oligomers by Matrix-Assisted Laser Desorption", <i>Anal. Chem.</i> , 66:1637-1645 (1994)

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